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RICHARD VANHORN
(1920 -)

NOTES, CORRESPONDENCE, PAPERS

1937 – 1989

(3.7 linear ft. and 7 map folders)

INVENTORY

By

Carol A. Edwards and Clay M. Martin
U.S. Geological Survey Field Records Collection
MS 914, Box 25046, Federal Center
Denver, CO 80225-0046
July 2003/November 2008

Location of Field Notebooks: CS 16-6 through 7

**GEOLOGY OF THE GOLDEN 7.5' QUADRANGLE AND VICINITY,
ADAMS, ARAPAHOE, BOULDER, DOUGLAS, AND JEFFERSON
COUNTIES, COLORADO. 1937-1962.**

<u>Item Number</u>	<u>Description</u>
NO-07795	Golden quadrangle. Notebook #1. Denver Project. 1952. Geologic, stratigraphic, and fossil notes; sketches. Some locations correlated to specific aerial photos; index in front of notebook. Locations RM1 – RM7, RG2 – RG12, RL1, RF1, RRB1, G:F3-F12, G-13. Also, notes on strips with “Waggi” [K.M. Waage?].
NO-07796	Golden quadrangle. Notebook #2. Denver Project. 1952-1953. Geologic, stratigraphic, and fossil notes; sketches. Some locations are correlated to specific aerial photographs; index in front of notebook. Sites include: Golden Sewer Plant; North and South Table Mountains; Parfet Clay Pit; Ralston dike; Rocky and Leyden Flats AEC ditch; Golden fault; Loveland and White Ash coal mine; Ralston, Ralston Springs, Leyden, and Tindall mines; Foss Quarry (N. Table Mountain), and others. Location numbers G14 – G23; GF9 – GF14; RG-13.
NO-07797	Golden quadrangle. Notebook #3. Denver Project. 1953, 1954, 1959. Geologic, stratigraphic, and fossil notes; sketches. Some locations correlated to specific aerial photographs; index in front of notebook. Sites include: Foss Quarry Road (cont.); North and South Table Mountains; Capitol mine; Ralston Reservoir; and others. Locations: G15, G23-G27; GF15-GF16; G-A1, G-A2—AEC samples. Drill hole data from Engineering Geology Branch rig, DH1 – DH11.
NO-07798	Golden quadrangle. Notebook #4. Denver Project. 1954-1956, 1958. Geologic, stratigraphic, and fossil notes; a few sketches. Some locations correlated to specific aerial photographs; index in front of notebook. Sites include: Ralston Reservoir section; Camp George West amphitheater; North and South Table Mountains; Graveyard Hill; Leyden Flat; Marsten Lake; and others. Locations G15, G25 – G31, G61; GF17 – GF72; FL-1.
NO-07799	Golden quadrangle. Notebook #5. Surficial. Denver Project. 1956-1957. Geologic, stratigraphic, and fossil notes; sketches. Some locations are correlated to specific aerial photographs; index in front of notebook. Sites include: Applewood, Van Bibber Creek; Ralston Dike; Standley Lake area; Rocky Flats area; Piney Creek; and others. Locations G32 – G72; GF73 – GF91; EF-2; RF-15; R28; M-1.
NO-07800	Golden quadrangle. Notebook #6. Denver Project. 1957-1960. Geologic, stratigraphic notes; sketches. Some locations correlated to specific aerial photographs; index in front of notebook. Sites include: Ralston Dike; Morrison School; Castle Rock; Clear Creek; Golden; Van Bibber and Ralston Creeks;

Hiway 92; and others. Locations: G-13; G73 – G102; RG-12; GF-23; GF-79; GF92 – GF98.

- NO-07801 Golden quadrangle. Notebook #7. March 1961. Geologic and stratigraphic notes. Some locations are correlated to specific aerial photographs; index in front of notebook. Sites include: Standley Lake; Golden; Leyden Creek hogback; Clear Creek; Mt. Olivet Cemetery and vicinity; Hyatt Lake; Piney Creek; Ralston Creek; North Table Mountain; Leyden wells; and others. Also, trip to Englewood Dam. Locations: G103 – G163; AR5 – AR6; GF71. There are also several pages of notes from issues of the *Golden Globe* newspaper on geology-related events such as floods, landslides, cave-ins, etc.
- NO-07802 Golden quadrangle. Notebook #8. 1961-1962, 1969. Geologic and stratigraphic notes; sketches. Also, notes from old issues of the *Golden Globe* and *Denver Post* newspapers for geology-related events such as floods, landslides, cave-ins, etc. Sites include: Golden; Castle Rock rockfall; South Table Mountain; Green Mountain; Leyden Creek; Clear Creek; and others. Locations G167 – G176; G101; G24.
- NO-07803 Golden quadrangle. Notebook #9. 1970, 1971. Notes on 3 landslides in the Golden area. Locations G175 – G177. Includes information on photos taken by Harold E. Malde, USGS; 3 color Polaroid photos showing Malde at work with camera.
- NO-07804 Four expandable envelopes with a total of 347 black and white vertical aerial photographs, many with annotations:
- Folder 1. Golden East. AIN 48: 71-79 (1937)
 - Folder 2. East Central. AIN 49: 19-28 (1937)
 - Folder 3. Golden, West Central. AIN 49: 92-93 (1937)
AIN 50: 7-14 (1937)
 - Folder 4. Golden West. AIN 40:37-47 (1937)
 - Folder 5. E. Ralston Buttes, West Golden. AIN 51: 23-33 (1937)
 - Folder 6. VV 3415TTW M1 AFTRC DENVER & VICINITY 432-440 (1949)
 - Folder 7. VV 3415TTW M1 AFTRC DENVER & VICINITY 365-373 (1949)
 - Folder 8. VV 3415TTW M1 AFTRC DENVER & VICINITY 374, 375 (2 copies), 376-382 (1949)
 - Folder 9. VV 3415TTW M1 AFTRC DENVER & VICINITY 308-316 (1949)
 - Folder 10. VV 3415TTW M1 AFTRC DENVER & VICINITY 299-306 (1949)
 - Folder 11. VV 3415TTW M1 AFTRC DENVER & VICINITY 242-250 (1949)
 - Folder 12. VV 3415TTW M1 AFTRC DENVER & VICINITY 231-241 (1949)
 - Folder 13. VV 3415TTW M1 AFTRC DENVER & VICINITY 175-184 (1949)
 - Folder 14. VV 3415TTW M1 AFTRC DENVER & VICINITY 163-174

(1949)

- Folder 15. Arvada West. VV M177:48-55 (1954)
- Folder 16. East. VV M152: 52-61 (1954)
- Folder 17. East Central. VV M152: 93-102 (1954)
- Folder 18. West Central. VV M210: 85-74 (1955)
- Folder 19. West. VV M260: 14-23 (1955)
- Folder 20. Sketch map showing aerial photo coverage
- Folder 21. Arvada (West). AIN 83: 17-20 (1937)
- Folder 22. Arvada (Central) YF 33: 17-27 (1937)
- Folder 23. Arvada (East) YF 33: 52-62 (1937)
- Folder 24. Lafayette West. AIM-1B: 18-25 (1941)
- Folder 25. Lafayette Central. AIM-1B: 27-34 (1941)
YF 33:28-36 (1937)
- Folder 26. Lafayette East. YF 33: 42-51 (1937)
- Folder 27. Ft. Logan. Western Part. AIN 47: 36-43 (1937)
- Folder 28. Ft. Logan. Central Part. YH 33: 08-16 (1937)
- Folder 29. Ft. Logan. East Part. YH 33: 63-70 (1937)
- Folder 30. Louisville. AIM-1B: 70-77, 79-86, 120-137 (1941)
- Folder 31. VV FS M70 AMS 126: 6224-6226, 6230-6231, 6313-6315, 6827-6831 (1953)
- Folder 32. VV 3415TTW M1 AFTRC: 103-115, 178, 236, 444, 508-509, 573-575, 637 (1949)

MA-01541 Map folder with 18 items:

- enlargement of photo AIN 40:39 with annotations.
- 1 copy each of Louisville and El Dorado Springs 7.5' quadrangles with some geology added.
- copy of west half of Golden 7.5' quadrangle with notes.
- 8 paper copies of Golden 7.5' quadrangle with various annotations, including: structure contours, wells, fossil localities, bedrock dips, and lithology, in the Laramie and Arapahoe Formations; Surficial and fossil localities; bedrock fossil and sample localities; carborne radioactivity; stratigraphy.
- sheet with location G-24: section of K1 north of Clear Creek.
- two paper sheets with structure contours on K-T boundary, with and without observed dips.
- linen sheet with location G-25: Ralston Reservoir geology and structure notes.
- two paper sheets, each a composite of Eldorado Springs, Louisville, Ralston Buttes, and Golden 7.5' quadrangles – one is labeled “Proposed AEC Site at Rocky Flats... Structure Contour Map of Coal in Laramie Formation,” and shows FIRST SITE and NEW SITE; other copy, which is not so labeled, includes some fossil areas (?).

MA-01542 Map folder with 2 plane table sheets – Johnson #1 Clay mine, and Ralston Reservoir.

MA-01543 Map folder with 12 items:

- 2 copies of map from "Frank Fosler thesis".
- 3 sheets, Ralston Creek Reservoir Dam, showing geologic sections, topographic map, location of sections.
- 2 copies of map of Denver Fire Clay Company Golden mine.
- 5 sheets with maps, plans, profiles of Denver Sewer Pipe and Clay Company properties.

MA-01663 Map folder with photo titled "Mosaic of Ralston Creek Area on Highway 175" in Colorado. Scale 1:12,000 and dated June 1934. In 2 pieces.

Published as: U.S. Geological Survey. Geologic quadrangle map GQ-103. 1957.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations series map I-761. 1972.

Published as: U.S. Geological Survey. Professional paper 872. 1976.

GEOLOGY OF SALT LAKE CITY AND VICINITY, UTAH. 1947-1989.

- NO-05847 Expandable envelope with:
- one group of fossil reports on samples from the City Creek area, Salt Lake County.
 - one group of notes on samples of foraminifera from Lake Bonneville and the Great Salt Lake.
 - one group of fossil reports from the Salt Lake City area.
- NO-05848 Expandable folder containing materials test data reports and mechanical analyses of various samples from the Salt Lake City area. 1976-1977.
- NO-05849 Expandable folder containing one group of 9 aerial photographs of the Corner Creek, Utah, area. 1965.
- NO-05850 Expandable folder containing three groups of aerial photographs in file folders:
- 6 aerial photos of the Farmington 7.5' quadrangle, Davis County, Utah. 1971.
 - 49 infrared aerial photographs of Salt Lake City vicinity, Utah, plus one positive and one negative transparency.
 - 47 aerial photographs of Salt Lake City and vicinity, Utah. Prints dated 1946, 1971, 1975.
- NO-05851 Expandable folder containing four groups of aerial photographs in file folders, dated 1937:
- 20 aerial photographs labeled "E. Mtns.", Salt Lake City, Utah, area.
 - 20 aerial photographs labeled "27th E.", Salt Lake City, Utah, area.
 - 19 aerial photographs labeled "15th E.", Salt Lake City, Utah, area.

- 21 aerial photographs labeled "State St.", Salt Lake City, Utah, area.
- NO-05852 Expandable folder containing three groups of aerial photographs in file folders, dated 1937:
- 22 aerial photographs labeled "8th W.", Salt Lake City, Utah, area.
 - 20 aerial photographs labeled "Redwood Rd.", Salt Lake City, Utah, area.
 - 21 aerial photographs labeled "32nd W.", Salt Lake City, Utah, area.
- NO-05853 Expandable folder containing three groups of aerial photographs in file folders, dated 1937:
- 15 aerial photographs labeled "48th W.", Salt Lake City, Utah, area.
 - 15 aerial photographs labeled "60th W.", Salt Lake City, Utah, area.
 - 15 aerial photographs labeled "72nd W.", Salt Lake City, Utah, area.
- NO-05854 Expandable folder with:
- two paper indexes for Utah aerial photographs.
 - five aerial photograph mosaic indexes for Utah.
 - two aerial photograph mosaic indexes for the Fort Douglas, Utah, 7.5' quadrangle.
 - one infrared aerial photograph of Salt Lake City, Utah.
 - three miscellaneous aerial photographs, dated 1946.
- NO-05855 Expandable folder containing six groups of aerial photographs in file folders, dated 1953:
- 6 aerial photographs labeled "Bountiful", Salt Lake City, Utah, area.
 - 9 aerial photographs, location unknown.
 - 8 aerial photographs labeled "Cent. Salt Lake City" (Utah).
 - 7 aerial photographs labeled "3900 S.", Salt Lake City, Utah, area.
 - 9 aerial photographs labeled "S. Granite.", Salt Lake City, Utah, area.
 - 14 aerial photographs, location unknown.
- NO-05856 Expandable folder containing six groups of aerial photographs in file folders, dated 1950 and 1962:
- 11 aerial photographs labeled "E.E Mts.", Salt Lake City, Utah, area.
 - 12 aerial photographs labeled "E. Mts.", Salt Lake City, Utah, area.
 - 16 aerial photographs labeled "29th E.", Salt Lake City, Utah, area.
 - 15 aerial photographs labeled "13rh E.", Salt Lake City, Utah, area.
- NO-05857 Expandable folder containing:
- author's index of studied quadrangles.
 - 13 aerial photographs labeled "W. Cent. State.", Salt Lake City, Utah, area. Dated 1962.
 - 14 aerial photographs labeled "Redwood", Salt Lake City, Utah, area. Dated 1962.
 - 14 aerial photographs, location unknown. Dated 1962.

- NO-10779 Document box with 48 maps, annotated with geologic notes and “Field Locality Indexes”. Included are the Antelope Island, Antelope Island North, Antelope Island South, Black Mountain, Bountiful Peak, Brigham City, Brighton, Clearfield, Crandall Canyon, Draper (2 copies), Farmington (4 copies), Fort Douglas, Jordan Narrows (2 copies), Kaysville, Lampo Junction, Lark, Lehi (3 copies), Lincoln Point, Magna, Midvale, North Ogden (2 copies), Orem, Pelican Point, Plain City, Roy, Salt Lake City North (2 copies), Salt Lake City South (5 copies), Springville, Sugar House (3 copies), Thatcher Mountain, and Willard 7.5’ topographic quadrangles, and one copy each of the Bear river City and Clearfield 7.5’ orthophotoquads.
- NO-10780 Expandable envelope with 3 folders:
- Folder 1. Four mylar copies of portions of the Sugar House, Utah, 7.5’ quadrangle, with extensive geologic annotations.
 - Folder 2. Photographic notes for photos taken during the Salt Lake City Project.
 - Folder 3. 23 typed and 5 handwritten pages of summary information on field note locations, quadrangles, and formations studied during the Salt Lake City Project.
- NO-10781 R. Van Horn. Field notebook 1. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Field notes S-1 to S-22. March 26 through May 2, 1963.
- NO-10782 R. Van Horn. Field notebook 2. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Field notes S-23 to S-50. May 3, 1963 through September 16, 1963.
- NO-10783 R. Van Horn. Field notebook 3. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Field notes S-51 to S-75. September 19, 1963 through May 14, 1964.
- NO-10784 R. Van Horn. Field notebook 4. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Field notes S-76 to S-99. September 23, 1964 through October 18, 1965.
- NO-10785 R. Van Horn. Field notebook 5. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Field notes S-100 to S-127. October 18, 1965 through May 5, 1966.
- NO-10786 R. Van Horn. Field notebook 6. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Field notes S-128 to S-151. May 19 through mid-October, 1966.
- NO-10787 R. Van Horn. Field notebook 7. Geologic, sample, and measured section notes

and sketches, Salt Lake City Project. Field notes S-152 to S-194. October 17, 1966 through mid-October, 1967.

- NO-10788 R. Van Horn. Field notebook 8. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Field notes S-195 to S-223. October 16, 1967 through mid-May 1968.
- NO-10789 R. Van Horn. Field notebook 9. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Also included are numerous Polaroid prints taped to notebook pages. Field notes S-224 to S-276 and 318 to 320. May 12, 1968 through June, 1969.
- NO-10790 R. Van Horn. Field notebook 10. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Also included are numerous Polaroid prints taped to notebook pages. Field notes S-277 to S-311. June 4, 1969 through October 3, 1970.
- NO-10791 R. Van Horn. Field notebook 11. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Also included are numerous Polaroid prints taped to notebook pages. Field notes S-312 to S-351. September 26, 1970 through September 26, 1971.
- NO-10792 R. Van Horn. Field notebook 12. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Also included are numerous Polaroid prints taped to notebook pages. Field notes S-352 to S-386. September 29, 1971 through March 24, 1973.
- NO-10793 R. Van Horn. Field notebook 13. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Also included are numerous Polaroid prints taped to notebook pages. Field notes S-387 to S-439. May 31, 1973 through March 16, 1975.
- NO-10794 R. Van Horn. Field notebook 14. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Also included are numerous Polaroid prints taped to notebook pages. Field notes S-440 to S-494. April 13, 1975 through November 14, 1976.
- NO-10795 R. Van Horn. Field notebook 15. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Also included are numerous Polaroid prints taped to notebook pages. Field notes S-495 to S-537. April 5, 1977 through approximately July 12, 1978.
- NO-10796 R. Van Horn. Field notebook 16. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Also included are numerous Polaroid prints taped to notebook pages. Field notes S-538 to S-572. September 1978 through October, 1979.

- NO-10797 R. Van Horn. Field notebook 17. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Also included are several Polaroid prints taped to notebook pages. Field notes S-572 (sic) to S-580. October 18, 1979 through May 30, 1982.
- NO-10798 R. Van Horn. Field notebook 18. Geologic, sample, and measured section notes and sketches, Salt Lake City Project. Field notes for the years 1984 through 1989.
- NO-10799 R. Van Horn. Field notebook titled "Utah Valley". Geologic, sample, and measured section notes and sketches. This is apparently a series of notes that were precursors to Van Horn's later Salt Lake City Project. 1947.
- NO-10800 J. Howell. Field notebook 1. Geologic, sample, and measured section notes and sketches, City Creek Canyon, Salt Lake City Project. April 22 through July 9, 1975.
- NO-10801 J. Howell. Field notebook 2. Geologic, sample, and measured section notes and sketches, City Creek Canyon, Salt Lake City Project. July 10 through September 23, 1975.
- NO-10802 W.F. Case. Field notebook. Survey notes for geologic mapping in the Fort Douglas and Sugar House 7.5' quadrangles, Salt Lake City Project. April through May, 1969.
- MA-00901 Map folder with 2 groups of aerial photographs:
- Four aerial photo mosaic index sheets, low-altitude, AAL-14958.
 - Four aerial photo mosaic index sheets, high-altitude, NK 12-7, NK 12-8, NK 12-10, NK 12-11.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-766A-G. 1972.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1173. 1979.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1330. 1981.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1404. 1982.

Published as: U.S. Geological Survey. Open-file report 75-616. 1975.

Published as: U.S. Geological Survey. Professional paper 700-D. 1971

Published as: Utah Geological Association. Publication no. 1. 1972.

MISCELLANEOUS GEOLOGIC AND ENGINEERING PROJECTS IN COLORADO. 1952-1953.

- NO-10776 Two groups of loose sheets of field notes:
- "Denver (Metro) Project Region Areas to Study". Five page list of suggested subjects for geologic engineering studies in the Denver area. 1953.
 - "Misc. engineering geologic information from various Denver Metro area quadrangles". Eighteen pages of notes on geology, fossils, gravel pits, drill holes, and rock samples for the Englewood, Fitzsimmons, and Morrison 7.5' quadrangles. 1953.
- NO-10777 Field notebook. Notes on geology, drill holes, and building damage due to foundation shifting and settling for the Arvada 7.5' quadrangle. No date.
- NO-10778 Field notebook. Notes on geology and fossils for the Derby (now Commerce City) 7.5' quadrangle. 1952.
- MA-02769 Map folder with two items:
- Colorado Department of Highways 1952 State Road Atlas. Many pages annotated with geologic notes and locations for mines and quarries.
 - "Notebook on Eastern Colo. to accompany Atlas of Colo.". Notes on geology, stratigraphic sections and gravel pits for Adams, Arapahoe, Cheyenne, Kiowa, Kit Carson, Lincoln, Morgan, Washington, and Yuma Counties, 1953.

GEOLOGIC MAP OF THE BLACKS FERRY 7.5' QUADRANGLE, MONROE AND CUMBERLAND COUNTIES, KENTUCKY. 1962-1963.

- NO-04460 Field notebook (unbound) with geologic notes on the Blacks Ferry quadrangle, Kentucky. Also included are notes on the geology of the Columbia 7.5' quadrangle (Adair County), the Burkesville and Waterview 7.5' quadrangles, Cumberland County, and the Vernon 7.5' quadrangle, Monroe County. 1962-1963.
- MA-01596 Map folder with three linen-mounted copies of the Blacks Ferry quadrangle, annotated with geologic information and sample locations.

Published as: U.S. Geological Survey. Geologic Quadrangle GQ-803. 1969.